

1. A method of manipulating a stream of data in a CableCARD device, comprising:

receiving a stream of data from a host, the stream of data comprising a plurality of packets each having a packet identifier (PID) associated therewith;

5 selecting certain of the packets for remapping of the packet identifiers associated with the selected packets;

remapping the packet identifiers of the selected packets so that the packets are associated with a new packet identifier; and

sending the data stream with remapped packet identifiers back to the host.

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2. The method according to claim 1, wherein the stream of data includes encrypted packets.

15 3. The method according to claim 2, wherein the stream of data is selectively encrypted.

4. The method according to claim 2, further comprising decrypting the encrypted packets.

20 5. The method according to claim 4, further comprising re-encrypting the encrypted packets.

6. The method according to claim 4, wherein the remapping is carried out on the encrypted packets.

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7. The method according to claim 4, wherein the remapping is carried out on the unencrypted packets.

8. The method according to claim 1, wherein the CableCARD comprises an OpenCable™ compliant CableCARD.

9. The method according to claim 1, wherein the remapping comprises  
5 remapping packets to substitute packets in the stream of data on a packet basis.

10. The method according to claim 1, wherein the remapping comprises remapping packets to provide for insertion of a packet into the stream of data.

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11. The method according to claim 1, wherein the remapping comprises mapping one packet for multiple packets.

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12. The method according to claim 1, wherein the remapping comprises mapping multiple packets for one packet.

13. A method of manipulating a stream of data in a CableCARD device, comprising:

receiving a stream of data from a host, the stream of data comprising a plurality of packets each having a packet identifier (PID) associated therewith,

5 and wherein the stream of data further comprises encrypted packets;

selecting certain of the packets for remapping of the packet identifiers associated with the selected packets;

remapping the packet identifiers of the selected packets so that the packets are associated with a new packet identifier;

10 decrypting the encrypted packets;

re-encrypting the decrypted packets; and

sending the data stream with remapped packet identifiers back to the host.

14. The method according to claim 13, wherein the stream of data is

15 selectively encrypted.

15. The method according to claim 13, wherein the remapping is carried out prior to the decrypting.

20 16. The method according to claim 13, wherein the remapping is carried out after the decrypting.

17. The method according to claim 13, wherein the remapping is carried out after the re-encrypting.

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18. The method according to claim 13, wherein the CableCARD comprises an OpenCable™ compliant CableCARD.

19. The method according to claim 13, wherein the remapping comprises remapping packets to substitute packets in the stream of data on a packet for packet basis.
- 5 20. The method according to claim 13, wherein the remapping comprises remapping packets to provide for insertion of a packet into the stream of data.
21. The method according to claim 13, wherein the remapping comprises mapping one packet for multiple packets.
- 10 22. The method according to claim 13, wherein the remapping comprises mapping multiple packets for one packet.

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23. A CableCARD device for manipulation of a stream of data, comprising:  
means for receiving a stream of data from a host, the stream of data  
comprising a plurality of packets each having a packet identifier (PID) associated  
therewith;

5        a PID remapper that selects certain of the packets for remapping of the  
packet identifiers associated with the selected packets, and remaps the packet  
identifiers of the selected packets so that the packets are associated with a new  
packet identifier;  
means for sending the data stream with remapped packet identifiers back  
10 to the host.

24. The CableCARD device according to claim 23, wherein the stream of data  
further comprises encrypted packets.

15 25. The CableCARD device according to claim 24, further comprising a  
decrypter for decrypting the encrypted packets.

26. The CableCARD device according to claim 25, further comprising an  
encrypter for re-encrypting the decrypted packets.

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27. The CableCARD device according to claim 24, wherein the stream of data  
is selectively encrypted.

28. The CableCARD device according to claim 23, wherein the remapping is  
25 carried out prior to the decrypting.

29. The CableCARD device according to claim 23, wherein the remapping is  
carried out prior to the re-encrypting.

30. The CableCARD device according to claim 23, wherein the remapping is carried out after the re-encrypting.
- 5    31. The CableCARD device according to claim 23, wherein the CableCARD comprises an OpenCable™ compliant CableCARD.
- 10    32. The CableCARD device according to claim 23, wherein the remapping comprises remapping packets to substitute packets in the stream of data on a packet for packet basis.
- 15    33. The CableCARD device according to claim 23, wherein the remapping comprises remapping packets to provide for insertion of a packet into the stream of data.
- 20    34. The CableCARD device according to claim 23, wherein the remapping comprises mapping one packet for multiple packets.
35. The CableCARD device according to claim 23, wherein the remapping comprises mapping multiple packets for one packet.

36. A CableCARD device for manipulation of a stream of data, comprising:  
means for receiving a stream of data from a host, the stream of data  
comprising a plurality of packets each having a packet identifier (PID) associated  
therewith, wherein the stream of data further comprises encrypted packets;

5           a PID remapper that selects certain of the packets for remapping of the  
packet identifiers associated with the selected packets, and remaps the packet  
identifiers of the selected packets so that the packets are associated with a new  
packet identifier;

10           a decrypter for decrypting the encrypted packets;  
an encrypter for re-encrypting the decrypted packets;  
means for sending the data stream with remapped packet identifiers back  
to the host.

37. The CableCARD device according to claim 37, wherein the stream of data  
15 is selectively encrypted.

38. The CableCARD device according to claim 37, wherein the remapping is  
carried out at any point prior to the decrypting, prior to the re-encrypting, or after  
the re-encrypting.

20           39. The CableCARD device according to claim 37, wherein the CableCARD  
comprises an OpenCable™ compliant CableCARD.

40. The CableCARD device according to claim 37, wherein the remapping comprises remapping packets in at least one of the following manners:
- remapping packets to substitute packets in the stream of data on a packet for packet basis;
- 5       remapping packets to provide for insertion of a packet into the stream of data;
- remapping one packet for multiple packets; or
  - mapping multiple packets for one packet.

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41. A method of manipulating a stream of data in a CableCARD device, comprising:

receiving a stream of data from a host, the stream of data comprising a plurality of packets each having a packet identifier (PID) associated therewith;

5       selecting certain of the packets for remapping of the packet identifiers associated with the selected packets; and

sending the data stream with remapped packet identifiers back to the host.

42. The method according to claim 41, wherein the stream of data includes

10 encrypted packets.

43. The method according to claim 42, wherein the stream of data is selectively encrypted.

15 44. The method according to claim 42, further comprising decrypting the encrypted packets.

45. The method according to claim 44, further comprising re-encrypting the encrypted packets.

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46. The method according to claim 44, further comprising remapping the packet identifiers of the selected packets so that the packets are associated with a new packet identifier, wherein the remapping is carried out on the encrypted packets.

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47. The method according to claim 44, further comprising remapping the packet identifiers of the selected packets so that the packets are associated with a new packet identifier, wherein the remapping is carried out on the unencrypted packets.

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48. The method according to claim 41, wherein the CableCARD comprises an OpenCable™ compliant CableCARD.

49. The method according to claim 41, further comprising remapping the 10 packet identifiers of the selected packets so that the packets are associated with a new packet identifier.

50. The method according to claim 49, further comprising remapping the 15 packet identifiers of the selected packets so that the packets are associated with a new packet identifier, wherein the remapping comprises remapping packets to substitute packets in the stream of data on a packet for packet basis.

51. The method according to claim 49, wherein the remapping comprises remapping packets to provide for insertion of a packet into the stream of data.

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52. The method according to claim 49, wherein the remapping comprises mapping one packet for multiple packets.

53. The method according to claim 49, wherein the remapping comprises 25 mapping multiple packets for one packet.

54. A method of manipulating a stream of data in a CableCARD device, comprising:

receiving first and second streams of data from a host, the first and second streams of data comprising a plurality of packets each having a packet identifier (PID) associated therewith;

selecting certain of the packets from the second stream of data for remapping of the packet identifiers associated with the selected packets;

remapping the packet identifiers of the selected packets so that the packets are associated with a packet identifier that identifies the selected packets as being a part of the first stream; and

sending the first stream of data including the selected packets with remapped packet identifiers back to the host.

55. The method according to claim 54, wherein the remapping comprises

15 remapping packets to provide for insertion of a packet into the first stream of data.

56. The method according to claim 54, wherein the remapping comprises

mapping one packet for multiple packets.

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57. The method according to claim 54, wherein the remapping comprises mapping multiple packets for one packet.

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